

WARRANTY  
REGISTRATION:  
register online today for a  
chance to win a FREE Tripp Lite  
product—www.tripplite.com/warranty



# Owner's Manual



1111 W. 35th Street Chicago, IL 60609 USA  
Customer Support: (773) 869-1234 • www.tripplite.com

## Remote Control Module & Mounting Plate

for use with select PowerVerter® Inverters (PV series) or PowerVerter® Inverter/Chargers (APS, RV or EMS series)

The Remote Control Module allows you to remotely monitor and control many of the functions of select\* Tripp Lite PowerVerter PV Inverters and PowerVerter APS, RV or EMS Inverter/Chargers.

\* Only those models featuring an RJ45 Remote Port.

### Installation

#### Connecting to an Inverter or Inverter/Charger

Connect one end of the included RJ-type cable into the RJ45 Remote Port on the front of your PowerVerter Inverter or Inverter/Charger. Connect the other end into either of the two RJ45 Remote Ports on the bottom of the Remote Control Module.

#### Connecting to Additional Remote Control Modules (Optional)

You can control a single PowerVerter Inverter or Inverter/Charger with two separate Remote Control Modules. Connect one Remote Control Module directly to the PowerVerter as described above. Connect either of the two RJ45 Remote Ports on the bottom of the second Remote Control Module directly to the remaining RJ45 Remote Port on the bottom of the first Remote Control Module using an RJ-type cable, included.

#### Connecting to Vehicle's Ignition Switch (Optional)

You can set the Remote Control Module to automatically perform either one of two additional control functions (DISABLE or ENABLE) by connecting the Remote Control Module to the vehicle's ignition switch. These connections are optional; the Remote Control Module will function without these connections.



#### WARNING! THE IGNITION SWITCH CONTROL FUNCTION IS ONLY FOR USE WITH 12V NEGATIVE GROUND SYSTEMS.

Wiring the Ignition Switch Control Cable to your vehicle's ignition requires a qualified technician, who must determine the proper wiring procedure.

**“DISABLE” Control Function:** This function automatically disables (turns OFF) the AC power output from the PowerVerter when the vehicle's ignition switch is placed in the “Engine Run” position. This function will satisfy local codes and requirements concerning video monitors (or TVs) that are located within a driver's view by automatically turning them off when the engine is started.

Using the interface cable\* (included with select models), connect the black lead to vehicle ground (battery negative). Connect the red lead to the “Engine Run” terminal of the vehicle's ignition switch. Then, connect the interface cable's mini-plug to either of two Ignition Switch Control Jacks located on the side panel of the Remote Control Module: if you are controlling a PV Inverter, insert the mini-plug into the jack labeled “J-1”; if you are controlling an APS, RV or EMS Inverter/Charger, insert the mini-plug into the jack labeled “J-2”. After connecting the interface cable, set the Remote Control Module's switch to either “ON” (for PV models) or “CHRG ONLY” (for APS, RV or EMS models).

\* The interface cable (included with select models) has a mini-plug on one end and two wire leads (one black and one red) on the other.

**“ENABLE” Control Function:** This function automatically enables (turns ON) the AC power output from the PowerVerter when the vehicle's ignition switch is placed in either the “Accessory” or “Engine Run” positions. This function minimizes the risk of discharging the vehicle battery when the vehicle is parked with the engine off for an extended period of time.\*

Using the interface cable\*\* (included with select models), connect the black lead to vehicle ground (battery negative). Connect the red lead to the “Accessory” terminal of the vehicle's ignition switch. Then, connect the interface cable's mini-plug to either of two Ignition Switch Control Jacks located on the side panel of the Remote Control Module: if you are controlling a PV Inverter, insert the mini-plug into the jack labeled “J-2”; if you are controlling an APS, RV or EMS Inverter/Charger, insert the mini-plug into the jack labeled “J-1”. After connecting the interface cable, set the Remote Control Module's switch to either “ON” (for PV models) or “CHRG ONLY” (for APS, RV or EMS models).

\* Note: a very small discharge current (approximately 18 milliamps) will still exist that should not affect starting ability, even if the vehicle engine has not been turned on for several days. To reduce this current to zero, set the Remote Control Module's switch to either “OFF” (for PV models) or “AUTO” (for APS, RV or EMS models).\*\* The interface cable (included with select models) has a mini-plug on one end and two wire leads (one black and one red) on the other.

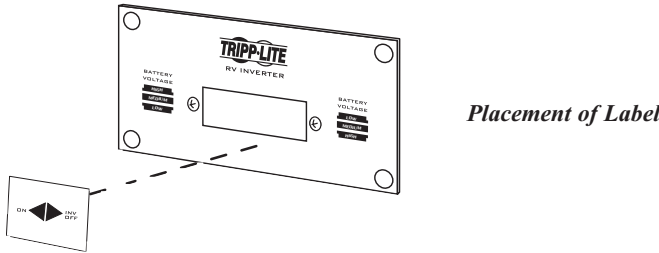
#### Mounting Without Included Mounting Plate (Optional)

Affix either one of the two included labels to the front panel of the Remote Control Module. The labels identify the Module's LEDs. Choose the label marked "PV" if you are using the Remote Control Module to operate a Tripp Lite Inverter. Choose the label market "APS" if you are using the Remote Control Module to operate a Tripp Lite Inverter/Charger.

Mount the Remote Control Module in a variety of ways (under-counter, recessed, etc.) using user-supplied hardware inserted through the Module's mounting holes/slots and into the mounting surface.

#### Mounting with Included Mounting Plate (Optional)

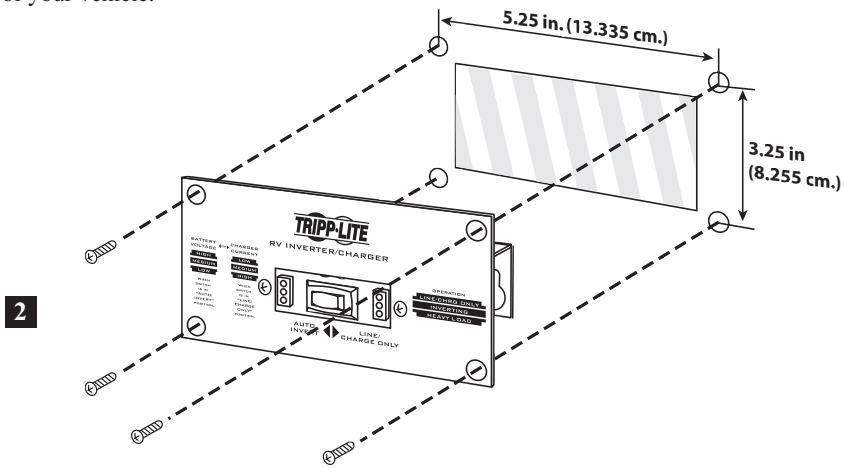
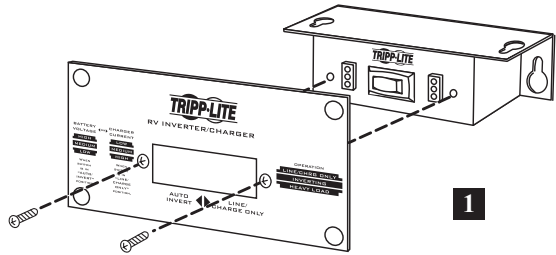
- For PVXXXXHF Model Inverters: Install with Inverter side of plate facing out.
- For PVXXXXFC Model Inverters: Install with Inverter side of plate facing out; place included label on plate as shown.



- For Inverter/Chargers (All Models): Install with Inverter/Charger side of plate facing out.

**STEP 1)** Using the two included machine screws, attach the Mounting Plate to the front of the Remote Control Module.

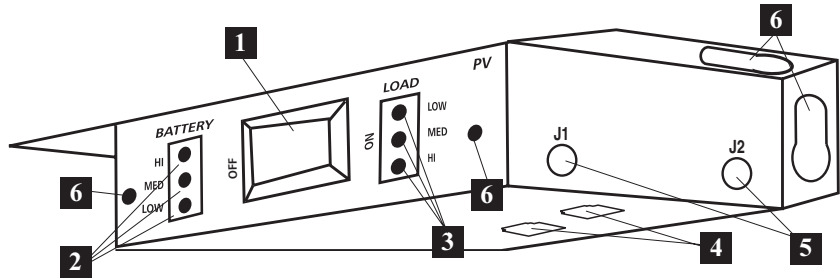
**STEP 2)** Using the four included sheet metal screws, install the Mounting Plate and Remote Control Module in the panel opening of your vehicle.



### Operation

Choose operation based on whether you connect your Remote Control Module to an Inverter (PV series) or Inverter/Charger (APS, RV or EMS series).

#### INVERTER (PV series)



Module shown without mounting plate

##### 1 OFF/ON Switch:

Move this switch to the “ON” position to have your Inverter provide connected equipment with AC power by converting DC power from an attached battery. To prevent battery drain, leave it in the “OFF” or “INV OFF”\* position when not using connected equipment.

##### 2 “BATTERY” LEDs: These three lights show the approximate charge of your connected batteries. See chart below for approximate charges.

LEDs Illuminated	Approximate Charge
Green	96% - Full
Green & yellow	81% - 95%
Yellow	61% - 80%
Yellow & red	41% - 60%
Red	21% - 40%
All three lights off	1% - 20%
Flashing red	0% (Inverter shutdown)
All three lights flash slowly	Excessive discharge
All three lights flash quickly	Overcharge

\* “OFF” when used with lable; “INV OFF” when used with mounting plate.

## Operation *(continued)*

**3 “LOAD” LEDs:** These three lights show the approximate load demand on your Inverter. See chart below for approximate load levels.

LEDs Illuminated	Approximate Load
Green	0% - 20%
Green & yellow	21% - 40%
Yellow	41% - 60%
Yellow & red	61% - 80%
Red	81% - Full
All three lights off	Inverter off
Flashing red	Overload

**4 RJ45 Remote Ports:** Use to connect the Remote Control Module to either an Inverter or a second Remote Control Module. See Installation section.

**5 Ignition Switch Control Jacks:** Use to connect the Remote Control Module to your vehicle’s ignition (with cable supplied on select models only) in order to automatically control the Inverter with the vehicle’s ignition switch. See Installation section.

**6 Mounting Holes/Slots:** Front panel holes can be used either to attach included Mounting Plate or to mount Remote Control Module behind a panel. Top and side panel slots can be used to attach Remote Control Module (without the Mounting Plate) either under or along a variety of surfaces with user-supplied hardware.

### INVERTER/CHARGER (APS, RV or EMS series)

